

858 Shipment Information

Functional Group ID=**SI**

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Shipment Information Transaction Set (858) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide the sender with the capability to transmit detailed bill-of-lading, rating, and/or scheduling information pertinent to a shipment. This transaction set can also be used to exchange Government Bills of Lading (GBLs), Commercial Bills of Lading (CBLs), Transportation Control and Movement Documents (TCMDs), and Personal Property Government Bills of Lading (PPGBLs). It may be used by the U.S. Civilian Government, U.S. Department of Defense, and any of their trading partners to exchange information about the shipment of freight, household goods, and passengers. This transaction set fulfills information requirements established by U.S. Government transportation movement rules and regulations.

Heading:

<u>Page No.</u>	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
5	010	ST	Transaction Set Header	M	1		
Not Used	020	ZC1	Beginning Segment for Data Correction or Change	O	1		
6	030	BX	General Shipment Information	M	1		n1
Not Used	040	BNX	Rail Shipment Information	O	1		
Not Used	050	M3	Release	O	1		
8	060	N9	Reference Identification	O	30		
Not Used	065	CM	Cargo Manifest	O	3		
Not Used	070	Y6	Authentication	O	4		
Not Used	080	Y7	Priority	O	1		
Not Used	090	C3	Currency	O	1		
Not Used	100	ITD	Terms of Sale/Deferred Terms of Sale	O	1		
10	110	G62	Date/Time	O	10		
Not Used	120	PER	Administrative Communications Contact	O	3		
Not Used	130	NA	Cross-Reference Equipment	O	999		
Not Used	140	F9	Origin Station	O	1		
Not Used	150	D9	Destination Station	O	1		
Not Used	160	R1	Route Information (Air)	O	1		
Not Used	170	R2	Route Information	O	13		
Not Used	175	R3	Route Information - Motor	O	13		
11	180	R4	Port or Terminal	O	5		
12	190	MEA	Measurements	O	10		
Not Used	200	H3	Special Handling Instructions	O	20		
Not Used	201	PS	Protective Service Instructions	O	5		
Not Used	210	H6	Special Services	O	6		
Not Used	211	V4	Cargo Location Reference	O	1		

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Not Used	212	V5	Vessel Code	O	1				
LOOP ID - E1						2			
Not Used	220	E1	Empty Car Disposition - Pended Destination Consignee	O	1				
Not Used	230	E4	Empty Car Disposition - Pended Destination City	O	1				
Not Used	240	E5	Empty Car Disposition - Pended Destination Route	O	13				
Not Used	245	PI	Price Authority Identification	O	1				
Not Used	250	M1	Insurance	O	1				
Not Used	260	M2	Sales/Delivery Terms	O	1				
Not Used	270	L7	Tariff Reference	O	30				
15	280	NTE	Note/Special Instruction	O	50				
Not Used	290	XH	Pro Forma - B13 Information	O	1				
LOOP ID - N7						600			
Not Used	330	N7	Equipment Details	O	1				
Not Used	331	EM	Equipment Characteristics	O	1				
Not Used	335	NA	Cross-Reference Equipment	O	30				
Not Used	340	M7	Seal Numbers	O	5				
Not Used	350	N5	Equipment Ordered	O	1				
Not Used	360	REF	Reference Identification	O	5				
Not Used	370	IC	Intermodal Chassis Equipment	O	1				
Not Used	375	VC	Motor Vehicle Control	O	21				
Not Used	380	GA	Canadian Grain Information	O	15				
LOOP ID - E1						2			
Not Used	381	E1	Empty Car Disposition - Pended Destination Consignee	O	1				
Not Used	382	E4	Empty Car Disposition - Pended Destination City	O	1				
Not Used	383	E5	Empty Car Disposition - Pended Destination Route	O	13				
Not Used	384	PI	Price Authority Identification	O	1				
LOOP ID - N1						12			
Not Used	390	N1	Name	O	1				
Not Used	400	N2	Additional Name Information	O	2				
Not Used	410	N3	Address Information	O	2				
Not Used	420	N4	Geographic Location	O	1				
Not Used	430	REF	Reference Identification	O	12				
Not Used	440	PER	Administrative Communications Contact	O	3				
Not Used	445	H3	Special Handling Instructions	O	5				
LOOP ID - S5						999			
16	450	S5	Stop-off Details	O	1				
Not Used	460	G62	Date/Time	O	6				
18	470	N9	Reference Identification	O	10				
Not Used	480	H6	Special Services	O	6				
LOOP ID - N1						5			
Not Used	490	N1	Name	O	1				
Not Used	500	N2	Additional Name Information	O	2				

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Not Used	510	N3	Address Information	O	2
Not Used	520	N4	Geographic Location	O	1
Not Used	530	REF	Reference Identification	O	12
Not Used	540	PER	Administrative Communications Contact	O	3
LOOP ID - FA1					>1
Not Used	550	FA1	Type of Financial Accounting Data	O	1
Not Used	560	FA2	Accounting Data	M	>1
Not Used	570	L10	Weight	O	1

Detail:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
LOOP ID - HL							>1
20	010	HL	Hierarchical Level	M	1		
22	020	N7	Equipment Details	O	1		
Not Used	030	NA	Cross-Reference Equipment	O	1		
25	040	M7	Seal Numbers	O	5		
Not Used	050	N5	Equipment Ordered	O	1		
26	060	REF	Reference Identification	O	5		
Not Used	070	IC	Intermodal Chassis Equipment	O	1		
28	080	VC	Motor Vehicle Control	O	24		
Not Used	090	L7	Tariff Reference	O	10		
Not Used	095	SL1	Tariff Reference	O	1		
30	100	N9	Reference Identification	O	10		
Not Used	105	H3	Special Handling Instructions	O	1		
Not Used	110	X1	Export License	O	6		
Not Used	120	X2	Import License	O	1		
32	130	L5	Description, Marks and Numbers	O	10		
Not Used	131	PER	Administrative Communications Contact	O	5		
Not Used	132	LH2	Hazardous Classification Information	O	6		
Not Used	133	LHR	Hazardous Material Identifying Reference Numbers	O	1		
Not Used	134	LH6	Hazardous Certification	O	5		
Not Used	137	Y7	Priority	O	2		
Not Used	138	G62	Date/Time	O	10		
34	140	NTE	Note/Special Instruction	O	100		
Not Used	142	LP	Load Planning	O	1		
Not Used	143	AXL	Vehicle Axle Measurements	O	12		
LOOP ID - L0							20
35	145	L0	Line Item - Quantity and Weight	O	1		
Not Used	150	L1	Rate and Charges	O	20		
37	160	MEA	Measurements	O	10		
LOOP ID - LH1							100
40	170	LH1	Hazardous Identification Information	O	1		
42	180	LH2	Hazardous Classification Information	O	4		n2
44	190	LH3	Hazardous Material Shipping Name	O	12		

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Not Used	191	LFH	Freeform Hazardous Material Information	O	20	
Not Used	192	LEP	EPA Required Data	O	3	
Not Used	200	LH4	Canadian Dangerous Requirements	O	1	
Not Used	201	LHT	Transborder Hazardous Requirements	O	3	
45	210	LHR	Hazardous Material Identifying Reference Numbers	O	10	n3
Not Used	215	PER	Administrative Communications Contact	O	5	
Not Used	220	LHE	Empty Equipment Hazardous Material Information	O	1	n4
LOOP ID - FA1					>1	
Not Used	230	FA1	Type of Financial Accounting Data	O	1	
Not Used	240	FA2	Accounting Data	M	>1	
Not Used	250	L10	Weight	O	1	
LOOP ID - NM1					4	
46	260	NM1	Individual or Organizational Name	O	1	
Not Used	270	N3	Address Information	O	2	
Not Used	280	N4	Geographic Location	O	1	
LOOP ID - N1					4	
48	290	N1	Name	O	1	
Not Used	300	N2	Additional Name Information	O	2	
Not Used	310	N3	Address Information	O	2	
Not Used	320	N4	Geographic Location	O	1	

Summary:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes and Comments
Not Used	010	L3	Total Weight and Charges	O	1		
49	020	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. BX05 contains the Standard Carrier Alpha Code (SCAC) of the original roadhaul carrier receiving the shipment.
2. If the hazardous endorsement (LH204) is "NONE", then use of LH204 is mandatory. However, the receiver must consider it to be blanks when printing a paper document.
3. All receivers of the EDI transactions covering empty tank cars which last contained hazardous commodities must be able to add the constant words: RESIDUE: LAST CONTAINED ahead of the contents of LHE01 and add the constant: RESIDUE following the contents of the LHE02 when printing paper documents.
4. When used in the hazardous material loop, the segment will identify the various certification, exemption or shipper-related numbers that relate to the specific line item of the shipment that are in addition to the UN/UA number reference in the LH1 segment.

Segment: **ST** Transaction Set Header
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:

Data Element Summary

	Ref.	Data	Name	Attributes
	<u>Des.</u>	<u>Element</u>		
M	ST01	143	Transaction Set Identifier Code	M ID 3/3
			Code uniquely identifying a Transaction Set	
			858 Shipment Information	
M	ST02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

Segment: **BX** General Shipment Information
Position: 030
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To transmit identification numbers and other basic shipment data
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	BX01	353	Transaction Set Purpose Code Code identifying purpose of transaction set 00 Original 02 Add 03 Delete 04 Change	M ID 2/2
M	BX02	91	Transportation Method/Type Code Code specifying the method or type of transportation for the shipment <i>See Section 6.0 (MRM15 Ocean Cargo Shipping Instructions) for DoD code values and cross-reference to X12 codes.</i> <i>To find Section 6.0 on the web, go to http://www.lmi.org/dtedi/</i> <i>[Instructions: At that web location, select the IC navigator button. Choose the 'ICs Completed' menu, select the Implementation Convention document, and page to Section 6.0. That document is available in PDF format.]</i>	M ID 1/2
			ZZ Mutually defined	
M	BX03	146	Shipment Method of Payment Code identifying payment terms for transportation charges TP Third Party Pay	M ID 2/2
Must Use	BX04	145	Shipment Identification Number Identification number assigned to the shipment by the shipper that uniquely identifies the shipment from origin to ultimate destination and is not subject to modification; (Does not contain blanks or special characters)	O AN 1/30
Not Used	BX05	140	Standard Carrier Alpha Code Standard Carrier Alpha Code Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/4
Not Used	BX06	188	Weight Unit Code	O ID 1/1

			Code specifying the weight unit Refer to 004010 Data Element Dictionary for acceptable code values.
Not Used	BX07	147	Shipment Qualifier O ID 1/1 Code defining relationship of this shipment with respect to other shipments given to the carrier at the same time Refer to 004010 Data Element Dictionary for acceptable code values.
Not Used	BX08	226	Section Seven Code O ID 1/1 Code indicating applicability of section seven option (if not transmitted assume not in effect) Refer to 004010 Data Element Dictionary for acceptable code values.
Not Used	BX09	195	Capacity Load Code O ID 1/1 Code specifying type of capacity load Refer to 004010 Data Element Dictionary for acceptable code values.
Not Used	BX10	160	Status Report Request Code O ID 1/1 Code used by the shipper to specify that an automatic status report is requested when the shipment is delivered Refer to 004010 Data Element Dictionary for acceptable code values.
Not Used	BX11	501	Customs Documentation Handling Code O ID 2/2 Code defining method of handling for documentation Refer to 004010 Data Element Dictionary for acceptable code values.
Not Used	BX12	199	Confidential Billing Request Code O ID 1/1 Code used by the shipper to request that the carrier inhibit origin identification information from the invoice transaction sets and/or rate and charges from waybill documents and transaction sets when shipment moves under confidential contract rates Refer to 004010 Data Element Dictionary for acceptable code values.
Not Used	BX13	714	Goods and Services Tax Reason Code O ID 1/1 Code required to identify the reason for a 0% rated goods and services tax Refer to 004010 Data Element Dictionary for acceptable code values.
Not Used	BX14	346	Application Type O ID 2/2 Code identifying an application Refer to 004010 Data Element Dictionary for acceptable code values.

Segment: **N9** **Reference Identification**
Position: 060
Loop:
Level: Heading
Usage: Optional
Max Use: 30
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

Syntax Notes:

- 1 At least one of N902 or N903 is required.
- 2 If N906 is present, then N905 is required.
- 3 If either C04003 or C04004 is present, then the other is required.
- 4 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 N906 reflects the time zone which the time reflects.
- 2 N907 contains data relating to the value cited in N902.

Comments:

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	N901	128	Reference Identification Qualifier Code qualifying the Reference Identification BN Booking Number V3 Voyage Number	M ID 2/3
Must Use	N902	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
Not Used	N903	369	Free-form Description Free-form descriptive text	X AN 1/45
Not Used	N904	373	Date Date expressed as CCYYMMDD	O DT 8/8
Not Used	N905	337	Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	X TM 4/8
Not Used	N906	623	Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
Not Used	N907	C040	Reference Identifier	O

			To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	
Not Used	C04001	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	C04002	127	Reference Identification	M AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
Not Used	C04003	128	Reference Identification Qualifier	X ID 2/3
			Code qualifying the Reference Identification	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	C04004	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
Not Used	C04005	128	Reference Identification Qualifier	X ID 2/3
			Code qualifying the Reference Identification	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	C04006	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

Segment: **G62** Date/Time
Position: 110
Loop:
Level: Heading
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of G6201 or G6203 is required.
- 2 If either G6201 or G6202 is present, then the other is required.
- 3 If either G6203 or G6204 is present, then the other is required.

Semantic Notes:

Comments:

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	G6201	432	Date Qualifier	X ID 2/2
			Code specifying type of date	
			10 Requested Ship Date/Pick-up Date	
			54 Deliver No Later Than Date	
			BB Transaction Control Date	
Must Use	G6202	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	
Must Use	G6203	176	Time Qualifier	X ID 1/2
			Code specifying the reported time	
			W Effective Time	
Must Use	G6204	337	Time	X TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	
Must Use	G6205	623	Time Code	O ID 2/2
			Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	
			LT Local Time	

Segment: **R4 Port or Terminal**
Position: 180
Loop:
Level: Heading
Usage: Optional (Must Use)
Max Use: 5
Purpose: Contractual or operational port or point relevant to the movement of the cargo
Syntax Notes: 1 If either R402 or R403 is present, then the other is required.
Semantic Notes:
Comments: 1 R4 is required for each port to be identified.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
M	R401	115 Port or Terminal Function Code	M ID 1/1
		Code defining function performed at the port or terminal with respect to a shipment	
		D Port of Discharge (Operational)	
		L Port of Loading (Operational)	
Must Use	R402	309 Location Qualifier	X ID 1/2
		Code identifying type of location	
		IM Military Standard Movement Procedures (MILSTAMP)	
Must Use	R403	310 Location Identifier	X AN 1/30
		Code which identifies a specific location	
Not Used	R404	114 Port Name	O AN 2/24
		Free-form name for the place at which an offshore carrier originates or terminates (by transshipment or otherwise) its actual ocean carriage of property	
Not Used	R405	26 Country Code	O ID 2/3
		Code identifying the country	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	R406	174 Terminal Name	O AN 2/30
		Free-form field for terminal name	
Not Used	R407	113 Pier Number	O AN 1/4
		Identifying number for the pier	
Not Used	R408	156 State or Province Code	O ID 2/2
		Code (Standard State/Province) as defined by appropriate government agency	
		Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment: **MEA** **Measurements**

Position: 190

Loop:

Level: Heading

Usage: Optional (Must Use)

Max Use: 10

Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)

Syntax Notes:

- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
- 2 If MEA05 is present, then MEA04 is required.
- 3 If MEA06 is present, then MEA04 is required.
- 4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
- 5 Only one of MEA08 or MEA03 may be present.

Semantic Notes: 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

Comments: 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Must Use	MEA01	737	Measurement Reference ID Code	O ID 2/2
			Code identifying the broad category to which a measurement applies	
			CT Counts	
Must Use	MEA02	738	Measurement Qualifier	O ID 1/3
			Code identifying a specific product or process characteristic to which a measurement applies	
			SQ Shipped Quantity	
	MEA03	739	Measurement Value	X R 1/20
			The value of the measurement	
Not Used	MEA04	C001	Composite Unit of Measure	X
			To identify a composite unit of measure (See Figures Appendix for examples of use)	
Not Used	C00101	355	Unit or Basis for Measurement Code	M ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	C00102	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00103	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
Not Used	C00104	355	Unit or Basis for Measurement Code	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner	

			in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	C00105	1018	Exponent Power to which a unit is raised	O R 1/15
Not Used	C00106	649	Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10
Not Used	C00107	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
Not Used	C00108	1018	Exponent Power to which a unit is raised	O R 1/15
Not Used	C00109	649	Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10
Not Used	C00110	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
Not Used	C00111	1018	Exponent Power to which a unit is raised	O R 1/15
Not Used	C00112	649	Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10
Not Used	C00113	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
Not Used	C00114	1018	Exponent Power to which a unit is raised	O R 1/15
Not Used	C00115	649	Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10
Not Used	MEA05	740	Range Minimum The value specifying the minimum of the measurement range	X R 1/20
Not Used	MEA06	741	Range Maximum The value specifying the maximum of the measurement range	X R 1/20
Not Used	MEA07	935	Measurement Significance Code Code used to benchmark, qualify or further define a measurement value Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
Not Used	MEA08	936	Measurement Attribute Code Code used to express an attribute response when a numeric measurement value cannot be determined Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2

Not Used	MEA09	752	Surface/Layer/Position Code	O ID 2/2
			Code indicating the product surface, layer or position that is being described	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	MEA10	1373	Measurement Method or Device	O ID 2/4
			The method or device used to record the measurement	
			Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment: **NTE** Note/Special Instruction
Position: 280
Loop:
Level: Heading
Usage: Optional
Max Use: 50
Purpose: To transmit information in a free-form format, if necessary, for comment or special instruction

Syntax Notes:**Semantic Notes:**

Comments: 1 The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.

Data Element Summary

	Ref.	Data	Attributes
	<u>Des.</u>	<u>Element</u> <u>Name</u>	<u>Attributes</u>
Must Use	NTE01	363 Note Reference Code	O ID 3/3
		Code identifying the functional area or purpose for which the note applies	
		ADD Additional Information	
M	NTE02	352 Description	M AN 1/80
		A free-form description to clarify the related data elements and their content	

Segment:	S5	Stop-off Details
Position:	450	
Loop:	S5	Optional
Level:	Heading	
Usage:	Optional	
Max Use:	1	
Purpose:	To specify stop-off detail reference numbers and stop reason	
Syntax Notes:	1 If either S503 or S504 is present, then the other is required. 2 If either S505 or S506 is present, then the other is required. 3 If either S507 or S508 is present, then the other is required.	
Semantic Notes:	1 S509 is the stop reason description.	
Comments:		

Data Element Summary

	Ref.	Data	Attributes
	<u>Des.</u>	<u>Element</u> <u>Name</u>	<u></u>
M	S501	165 Stop Sequence Number	M N0 1/3
		Identifying number for the specific stop and the sequence in which the stop is to be performed	
M	S502	163 Stop Reason Code	M ID 2/2
		Code specifying the reason for the stop	
		PU Part Unload	
Not Used	S503	81 Weight	X R 1/10
		Numeric value of weight	
Not Used	S504	188 Weight Unit Code	X ID 1/1
		Code specifying the weight unit	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	S505	382 Number of Units Shipped	X R 1/10
		Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	
Not Used	S506	355 Unit or Basis for Measurement Code	X ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	S507	183 Volume	X R 1/8
		Value of volumetric measure	
Not Used	S508	184 Volume Unit Qualifier	X ID 1/1
		Code identifying the volume unit	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	S509	352 Description	O AN 1/80
		A free-form description to clarify the related data elements and their content	

Not Used	S510	154	Standard Point Location Code Code (Standard Point Location) defined by NMFTA point development group as the official code assigned to a city or point (for ratemaking purposes) within a city Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 6/9
Not Used	S511	190	Accomplish Code Code indicating the status of a specified stop Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/1

Segment: **N9 Reference Identification**
Position: 470
Loop: S5 Optional
Level: Heading
Usage: Optional (Must Use)
Max Use: 10
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

Syntax Notes:

- 1 At least one of N902 or N903 is required.
- 2 If N906 is present, then N905 is required.
- 3 If either C04003 or C04004 is present, then the other is required.
- 4 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 N906 reflects the time zone which the time reflects.
- 2 N907 contains data relating to the value cited in N902.

Comments:

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	N901	128	Reference Identification Qualifier Code qualifying the Reference Identification TG Transportation Control Number (TCN)	M ID 2/3
Must Use	N902	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
Not Used	N903	369	Free-form Description Free-form descriptive text	X AN 1/45
Not Used	N904	373	Date Date expressed as CCYYMMDD	O DT 8/8
Not Used	N905	337	Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	X TM 4/8
Not Used	N906	623	Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
Not Used	N907	C040	Reference Identifier To identify one or more reference numbers or identification numbers as	O

			specified by the Reference Qualifier	
Not Used	C04001	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	C04002	127	Reference Identification	M AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
Not Used	C04003	128	Reference Identification Qualifier	X ID 2/3
			Code qualifying the Reference Identification	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	C04004	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
Not Used	C04005	128	Reference Identification Qualifier	X ID 2/3
			Code qualifying the Reference Identification	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	C04006	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

Segment: **HL** **Hierarchical Level**
Position: 010
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Syntax Notes:**Semantic Notes:**

- Comments:**
- 1** The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
The HL segment defines a top-down/left-right ordered structure.
 - 2** HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
 - 3** HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
 - 4** HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
 - 5** HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Data Element Summary

	Ref.	Data		
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	HL01	628	Hierarchical ID Number	M AN 1/12
			A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	
Must Use	HL02	734	Hierarchical Parent ID Number	O AN 1/12
			Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	
M	HL03	735	Hierarchical Level Code	M ID 1/2
			Code defining the characteristic of a level in a hierarchical structure	
		9	Line Detail	
		F	Component	
		I	Item	
		J	Part Characteristic	
		P	Pack	

		UT	Unit or Lot		
Not Used	HL04	736	Hierarchical Child Code	O	ID 1/1
Code indicating if there are hierarchical child data segments subordinate to the level being described					
Refer to 004010 Data Element Dictionary for acceptable code values.					

Segment:	N7 Equipment Details
Position:	020
Loop:	HL Mandatory
Level:	Detail
Usage:	Optional (Must Use)
Max Use:	1
Purpose:	To identify the equipment
Syntax Notes:	<ol style="list-style-type: none"> 1 If either N703 or N704 is present, then the other is required. 2 If either N705 or N716 is present, then the other is required. 3 If either N708 or N709 is present, then the other is required.
Semantic Notes:	<ol style="list-style-type: none"> 1 N712 is the owner of the equipment. 2 N723 is the operator or carrier of the rights of the equipment.
Comments:	<ol style="list-style-type: none"> 1 N701 is mandatory for rail transactions. 2 N720 and N721 are expressed in inches.

Data Element Summary

	Ref.	Data	Attributes
	Des.	Element Name	
Must Use	N701	206 Equipment Initial	O AN 1/4
		Prefix or alphabetic part of an equipment unit's identifying number	
M	N702	207 Equipment Number	M AN 1/10
		Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	
Not Used	N703	81 Weight	X R 1/10
		Numeric value of weight	
Not Used	N704	187 Weight Qualifier	X ID 1/2
		Code defining the type of weight	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	N705	167 Tare Weight	X N0 3/8
		Weight of the equipment	
Not Used	N706	232 Weight Allowance	O N0 2/6
		Allowance made for increased weight due to such factors as snow	
Not Used	N707	205 Dunnage	O N0 1/6
		Weight of material used to protect lading (even bracings, false floors, etc.)	
Not Used	N708	183 Volume	X R 1/8
		Value of volumetric measure	
Not Used	N709	184 Volume Unit Qualifier	X ID 1/1
		Code identifying the volume unit	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	N710	102 Ownership Code	O ID 1/1
		Code indicating the relationship of equipment to carrier or ownership of equipment	

			Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	N711	40	Equipment Description Code	O ID 2/2
			Code identifying type of equipment used for shipment	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	N712	140	Standard Carrier Alpha Code	O ID 2/4
			Standard Carrier Alpha Code	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
	N713	319	Temperature Control	O AN 3/6
			Free-form abbreviation of temperature range or flash-point temperature	
Not Used	N714	219	Position	O AN 1/3
			Relative position of shipment in car, trailer, or container (mutually defined)	
Must Use	N715	567	Equipment Length	O N0 4/5
			Length (in feet and inches) of equipment ordered or used to transport shipment (The format is FFFII where FFF is feet and II is inches; the range for II is 00 through 11)	
Not Used	N716	571	Tare Qualifier Code	X ID 1/1
			Code identifying the type of tare	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	N717	188	Weight Unit Code	O ID 1/1
			Code specifying the weight unit	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	N718	761	Equipment Number Check Digit	O N0 1/1
			Number which designates the check digit applied to a piece of equipment	
Not Used	N719	56	Type of Service Code	O ID 2/2
			Code specifying extent of transportation service requested	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	N720	65	Height	O R 1/8
			Vertical dimension of an object measured when the object is in the upright position	
Not Used	N721	189	Width	O R 1/8
			Shorter measurement of the two horizontal dimensions measured with the object in the upright position	
Not Used	N722	24	Equipment Type	O ID 4/4
			Code identifying equipment type	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	N723	140	Standard Carrier Alpha Code	O ID 2/4
			Standard Carrier Alpha Code	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	N724	301	Car Type Code	O ID 1/4
			Code specifying type of rail car or intermodal equipment type and its general characteristics	

Refer to 004010 Data Element Dictionary for acceptable code values.

Segment: **M7** Seal Numbers
Position: 040
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 5
Purpose: To record seal numbers used and the organization that applied the seals
Syntax Notes:
Semantic Notes:
Comments: 1 M705 indicates the name of the organization which applied the seal(s).

Data Element Summary

	Ref.	Data		
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	M701	225	Seal Number	M AN 2/15
			Unique number on seal used to close a shipment	
	M702	225	Seal Number	O AN 2/15
			Unique number on seal used to close a shipment	
	M703	225	Seal Number	O AN 2/15
			Unique number on seal used to close a shipment	
Not Used	M704	225	Seal Number	O AN 2/15
			Unique number on seal used to close a shipment	
Not Used	M705	98	Entity Identifier Code	O ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment:	REF Reference Identification
Position:	060
Loop:	HL Mandatory
Level:	Detail
Usage:	Optional
Max Use:	5
Purpose:	To specify identifying information
Syntax Notes:	<ol style="list-style-type: none"> 1 At least one of REF02 or REF03 is required. 2 If either C04003 or C04004 is present, then the other is required. 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Comments:	

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification VT Motor Vehicle ID Number	M ID 2/3
Must Use	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
Not Used	REF03	352	Description A free-form description to clarify the related data elements and their content	X AN 1/80
Not Used	REF04	C040	Reference Identifier To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O
Not Used	C04001	128	Reference Identification Qualifier Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/3
Not Used	C04002	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/30
Not Used	C04003	128	Reference Identification Qualifier Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/3
Not Used	C04004	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
Not Used	C04005	128	Reference Identification Qualifier Code qualifying the Reference Identification	X ID 2/3

			Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	C04006	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

Segment: **VC** **Motor Vehicle Control**
Position: 080
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 24
Purpose: To define motor vehicle identification and logistics
Syntax Notes:
Semantic Notes: 1 VC05 is the automotive manufacturer route code.
Comments:

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
M	VC01	539 Vehicle Identification Number	M AN 1/25
		Unique identification number stamped on the vehicle by the manufacturer	
Not Used	VC02	836 Vehicle Deck Position Code	O ID 2/2
		Code to identify the specific position of a vehicle on multi-level equipment; when dealing with rail cars the front end will be defined as that end of the rail car which the vehicle faces	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	VC03	837 Vehicle Type Code	O ID 1/1
		Vehicle Type Code for freight rate and claims purposes	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	VC04	838 Dealer Code	O AN 2/9
		A code assigned by a manufacturer to identify their dealers	
Not Used	VC05	1 Route Code	O AN 1/13
		Mutually defined route code	
Not Used	VC06	839 Bay Location	O AN 1/6
		Location where the releasing agent placed the motor vehicle	
Not Used	VC07	833 Automotive Manufacturers Code	O ID 2/2
		Code (ARR) used to identify vehicle manufacturer	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	VC08	308 Damage Exception Indicator	O ID 1/1
		Code to indicate whether damage is being reported to a vehicle in this transaction set	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	VC09	835 Supplemental Inspection Code	O ID 1/1
		A code to indicate a supplemental inspection	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	VC10	583 Factory Car Order Number	O AN 6/10

This number to be supplied by the shipper for Canadian customer requirements at border points for all finished motor vehicles exported to the United States from Canada

Not Used	VC11	877	Vessel Stowage Location	O AN 1/12
			Location of cargo stowed on board an ocean vessel	

Segment: **N9** **Reference Identification**
Position: 100
Loop: HL Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: 10
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

Syntax Notes:

- 1 At least one of N902 or N903 is required.
- 2 If N906 is present, then N905 is required.
- 3 If either C04003 or C04004 is present, then the other is required.
- 4 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 N906 reflects the time zone which the time reflects.
- 2 N907 contains data relating to the value cited in N902.

Comments:

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	N901	128	Reference Identification Qualifier Code qualifying the Reference Identification II Department of Defense Identification Code (DoDIC) 4M Special Move Reference Number 8H Check List Number 8X Transaction Category or Type BCI Basic Contract Line Item Number LI Line Item Identifier (Seller's) LV License Plate Number P4 Project Code QN Stop Sequence Number QQ Unit Number SU Special Processing Code TG Transportation Control Number (TCN) TH Transportation Account Code (TAC)	M ID 2/3
Must Use	N902	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
Not Used	N903	369	Free-form Description Free-form descriptive text	X AN 1/45
Not Used	N904	373	Date Date expressed as CCYYMMDD	O DT 8/8
Not Used	N905	337	Time	X TM 4/8

Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

Not Used	N906	623	Time Code	O ID 2/2
Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow				
Refer to 004010 Data Element Dictionary for acceptable code values.				
Not Used	N907	C040	Reference Identifier	O
To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier				
Not Used	C04001	128	Reference Identification Qualifier	M ID 2/3
Code qualifying the Reference Identification				
Refer to 004010 Data Element Dictionary for acceptable code values.				
Not Used	C04002	127	Reference Identification	M AN 1/30
Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
Not Used	C04003	128	Reference Identification Qualifier	X ID 2/3
Code qualifying the Reference Identification				
Refer to 004010 Data Element Dictionary for acceptable code values.				
Not Used	C04004	127	Reference Identification	X AN 1/30
Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
Not Used	C04005	128	Reference Identification Qualifier	X ID 2/3
Code qualifying the Reference Identification				
Refer to 004010 Data Element Dictionary for acceptable code values.				
Not Used	C04006	127	Reference Identification	X AN 1/30
Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				

Segment: L5 Description, Marks and Numbers**Position:** 130**Loop:** HL Mandatory**Level:** Detail**Usage:** Optional (Must Use)**Max Use:** 10**Purpose:** To specify the line item in terms of description, quantity, packaging, and marks and numbers

- Syntax Notes:**
- 1 If either L503 or L504 is present, then the other is required.
 - 2 If L507 is present, then L506 is required.
 - 3 If either L508 or L509 is present, then the other is required.

Semantic Notes:

- Comments:**
- 1 L502 may be used to send quantity information as part of the product description.

Data Element Summary

	Ref.	Data	Name	Attributes
	<u>Des.</u>	<u>Element</u>		
Not Used	L501	213	Lading Line Item Number Sequential line number for a lading item	O N0 1/3
	L502	79	Lading Description Description of an item as required for rating and billing purposes	O AN 1/50
Must Use	L503	22	Commodity Code Code describing a commodity or group of commodities	X AN 1/30
Must Use	L504	23	Commodity Code Qualifier Code identifying the commodity coding system used for Commodity Code I Milstamp AITC or Water Commodity Code	X ID 1/1
Not Used	L505	103	Packaging Code Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required Refer to 004010 Data Element Dictionary for acceptable code values.	O AN 3/5
	L506	87	Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment	X AN 1/48
	L507	88	Marks and Numbers Qualifier Code specifying the application or source of Marks and Numbers (87) ZZ Mutually Defined	O ID 1/2
Not Used	L508	23	Commodity Code Qualifier Code identifying the commodity coding system used for Commodity Code Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 1/1
Not Used	L509	22	Commodity Code Code describing a commodity or group of commodities	X AN 1/30

Not Used	L510	595	Compartment ID Code	O ID 1/1
Code identifying the compartment in a compartmentalized tank car				
Refer to 004010 Data Element Dictionary for acceptable code values.				

Segment: **NTE** **Note/Special Instruction**
Position: 140
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 100
Purpose: To transmit information in a free-form format, if necessary, for comment or special instruction

Syntax Notes:**Semantic Notes:**

Comments: **1** The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.

Data Element Summary

	Ref.	Data	Name	Attributes
	<u>Des.</u>	<u>Element</u>		
Must Use	NTE01	363	Note Reference Code	O ID 3/3
			Code identifying the functional area or purpose for which the note applies	
			ADD	Additional Information
			CIG	Cigarette Information
			EED	Equipment Description
			LIQ	Liquor Information
			OCR	Outside the Continental U.S. (OCONUS) Rating Information
			OTN	Another Type of Number Description
			TRA	Transportation
M	NTE02	352	Description	M AN 1/80
			A free-form description to clarify the related data elements and their content	

Segment:	L0 Line Item - Quantity and Weight
Position:	145
Loop:	L0 Optional (Must Use)
Level:	Detail
Usage:	Optional (Must Use)
Max Use:	1
Purpose:	To specify quantity, weight, volume, and type of service for a line item including applicable "quantity/rate-as" data
Syntax Notes:	<ol style="list-style-type: none"> 1 If either L002 or L003 is present, then the other is required. 2 If either L004 or L005 is present, then the other is required. 3 If either L006 or L007 is present, then the other is required. 4 If either L008 or L009 is present, then the other is required. 5 If L011 is present, then L004 is required. 6 If either L013 or L015 is present, then the other is required.
Semantic Notes:	<ol style="list-style-type: none"> 1 L008 is the number of handling units of the line item tendered to the carrier. 2 L013 can only be used if the code in L009 is PLT, SKD, or SLP. 3 L015 designates whether the carrier will be required to verify the number of units contained on a pallet, slip sheet or skid. Code "Y" indicates that the carrier will be required to verify. Code "N" indicates that the carrier will not be required to verify.
Comments:	<ol style="list-style-type: none"> 1 L013 is used to convey the total number of boxes, cartons, or pieces contained on a pallet, skid, or slip sheet for the line item.

Data Element Summary

	Ref.	Data	Attributes
	Des.	Element Name	
Not Used	L001	213 Lading Line Item Number	O N0 1/3
		Sequential line number for a lading item	
Not Used	L002	220 Billed/Rated-as Quantity	X R 1/11
		Basis for rating (miles, value, volume, etc.); Note: Weight may be defined by either data element 220 or 81	
Not Used	L003	221 Billed/Rated-as Qualifier	X ID 2/2
		Code identifying the type of quantity or value on which the rate or item pricing is based	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
Must Use	L004	81 Weight	X R 1/10
		Numeric value of weight	
Must Use	L005	187 Weight Qualifier	X ID 1/2
		Code defining the type of weight	
		G Gross Weight	
		N Actual Net Weight	
		U Weight Per Unit	
Must Use	L006	183 Volume	X R 1/8

			Value of volumetric measure	
Must Use	L007	184	Volume Unit Qualifier	X ID 1/1
			Code identifying the volume unit	
			E Cubic Feet	
	L008	80	Lading Quantity	X N0 1/7
			Number of units (pieces) of the lading commodity	
Must Use	L009	211	Packaging Form Code	X ID 3/3
			Code for packaging form of the lading quantity	
			PCS Pieces	
Must Use	L010	458	Dunnage Description	O AN 2/25
			Material used to protect lading	
Must Use	L011	188	Weight Unit Code	O ID 1/1
			Code specifying the weight unit	
			K Kilograms	
			L Pounds	
Not Used	L012	56	Type of Service Code	O ID 2/2
			Code specifying extent of transportation service requested	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	L013	380	Quantity	X R 1/15
			Numeric value of quantity	
Not Used	L014	211	Packaging Form Code	O ID 3/3
			Code for packaging form of the lading quantity	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	L015	1073	Yes/No Condition or Response Code	X ID 1/1
			Code indicating a Yes or No condition or response	
			Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment: MEA Measurements**Position:** 160**Loop:** L0 Optional (Must Use)**Level:** Detail**Usage:** Optional**Max Use:** 10**Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)

- Syntax Notes:**
- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
 - 2 If MEA05 is present, then MEA04 is required.
 - 3 If MEA06 is present, then MEA04 is required.
 - 4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
 - 5 Only one of MEA08 or MEA03 may be present.

Semantic Notes: 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

Comments: 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

Data Element Summary

	Ref.	Data	Name	Attributes
	<u>Des.</u>	<u>Element</u>		
Must Use	MEA01	737	Measurement Reference ID Code	O ID 2/2
			Code identifying the broad category to which a measurement applies	
			CT Counts	
Must Use	MEA02	738	Measurement Qualifier	O ID 1/3
			Code identifying a specific product or process characteristic to which a measurement applies	
			HT Height	
			LN Length	
			WD Width	
Must Use	MEA03	739	Measurement Value	X R 1/20
			The value of the measurement	
Not Used	MEA04	C001	Composite Unit of Measure	X
			To identify a composite unit of measure (See Figures Appendix for examples of use)	
Not Used	C00101	355	Unit or Basis for Measurement Code	M ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	C00102	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00103	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	

Not Used	C00104	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
Not Used	C00105	1018	Exponent Power to which a unit is raised	O R 1/15
Not Used	C00106	649	Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10
Not Used	C00107	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
Not Used	C00108	1018	Exponent Power to which a unit is raised	O R 1/15
Not Used	C00109	649	Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10
Not Used	C00110	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
Not Used	C00111	1018	Exponent Power to which a unit is raised	O R 1/15
Not Used	C00112	649	Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10
Not Used	C00113	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
Not Used	C00114	1018	Exponent Power to which a unit is raised	O R 1/15
Not Used	C00115	649	Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10
Not Used	MEA05	740	Range Minimum The value specifying the minimum of the measurement range	X R 1/20
Not Used	MEA06	741	Range Maximum The value specifying the maximum of the measurement range	X R 1/20
Not Used	MEA07	935	Measurement Significance Code Code used to benchmark, qualify or further define a measurement value Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
Not Used	MEA08	936	Measurement Attribute Code Code used to express an attribute response when a numeric measurement	X ID 2/2

			value cannot be determined	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	MEA09	752	Surface/Layer/Position Code	O ID 2/2
			Code indicating the product surface, layer or position that is being described	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	MEA10	1373	Measurement Method or Device	O ID 2/4
			The method or device used to record the measurement	
			Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment:	LH1	Hazardous Identification Information
Position:	170	
Loop:	LH1	Optional
Level:	Detail	
Usage:	Optional	
Max Use:	1	
Purpose:	To specify the hazardous commodity identification reference number and quantity	
Syntax Notes:		
Semantic Notes:		
Comments:	<ol style="list-style-type: none"> 1 LH101 and LH102 are used to convey the number and type of packages for bulk and nonbulk movements. 2 LH106 and LH107 are used to convey the quantity or volume and unit of measure for nonbulk shipments only. 3 In LH109, a value of "R" or "P" requires that the receiver generate the words "residue: last contained" prior to the shipping name in accordance with regulations. 	

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	LH101	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken ZZ Mutually Defined	M ID 2/2
M	LH102	80	Lading Quantity Number of units (pieces) of the lading commodity	M N0 1/7
	LH103	277	UN/NA Identification Code Code identifying the hazardous material identification number as required by Title 49 of the code of Federal Regulations; UN/NA stands for United Nations/North America Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 6/6
Not Used	LH104	200	Hazardous Materials Page The United Nations page number as required for the international transport of hazardous materials	O AN 1/6
Not Used	LH105	22	Commodity Code Code describing a commodity or group of commodities	O AN 1/30
	LH106	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken LB Pound	O ID 2/2
	LH107	380	Quantity Numeric value of quantity	O R 1/15
Not Used	LH108	595	Compartment ID Code	O ID 1/1

			Code identifying the compartment in a compartmentalized tank car Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	LH109	665	Residue Indicator Code	O ID 1/1
			Code indicating that the material being described is that which remains in a packaging (including a tank car) after it has been unloaded Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	LH110	254	Packing Group Code	O ID 1/3
			Code indicating degree of danger in terms of Roman number I, II or III Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	LH111	1375	Interim Hazardous Material Regulatory Number	O AN 1/5
			Identifies the current regulatory version number used for hazardous materials shipments	

Segment:	LH2	Hazardous Classification Information
Position:	180	
Loop:	LH1	Optional
Level:	Detail	
Usage:	Optional	
Max Use:	4	
Purpose:	To specify the hazardous notation and endorsement information	
Syntax Notes:	<ol style="list-style-type: none"> 1 If either LH206 or LH207 is present, then the other is required. 2 If either LH208 or LH209 is present, then the other is required. 3 If either LH210 or LH211 is present, then the other is required. 	
Semantic Notes:	<ol style="list-style-type: none"> 1 LH206 and LH207 indicate the flashpoint temperature. 2 LH208 and LH209 indicate the control temperature. 3 LH210 and LH211 indicate the emergency temperature. 	
Comments:		

Data Element Summary				
	Ref. Des.	Data Element	Name	Attributes
Must Use	LH201	215	Hazardous Classification The hazardous classification corresponding to the shipping name of the hazardous commodity Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/30
Not Used	LH202	983	Hazardous Class Qualifier Code qualifying hazardous class Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/1
Not Used	LH203	218	Hazardous Placard Notation The placard notation corresponding to the hazard class of the hazardous commodity Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 14/40
Not Used	LH204	222	Hazardous Endorsement The placard endorsement that is to be shown on the shipping papers for the hazardous commodity Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 4/25
Not Used	LH205	759	Reportable Quantity Code Code to identify presence of hazardous substance Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
Not Used	LH206	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2
Not Used	LH207	408	Temperature Temperature	X R 1/4

Not Used	LH208	355	Unit or Basis for Measurement Code	X	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
			Refer to 004010 Data Element Dictionary for acceptable code values.		
Not Used	LH209	408	Temperature	X	R 1/4
			Temperature		
Not Used	LH210	355	Unit or Basis for Measurement Code	X	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
			Refer to 004010 Data Element Dictionary for acceptable code values.		
Not Used	LH211	408	Temperature	X	R 1/4
			Temperature		

Segment: LH3 Hazardous Material Shipping Name**Position:** 190**Loop:** LH1 Optional**Level:** Detail**Usage:** Optional**Max Use:** 12**Purpose:** To specify the hazardous material shipping name and additional descriptive requirements**Syntax Notes:** 1 If either LH301 or LH302 is present, then the other is required.**Semantic Notes:** 1 If LH304 is "Y", then this is an Association of American Railroads Operations and Transportation Bulletin 55 commodity. If "N", it is not an Association of American Railroads Operations and Transportation Bulletin 55 commodity.**Comments:****Data Element Summary**

	Ref.	Data	Attributes
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
Must Use	LH301	224 Hazardous Material Shipping Name	X AN 1/25
		The proper shipping name of the hazardous commodity as specified by the Code of Federal Regulations, Title 49	
Must Use	LH302	984 Hazardous Material Shipping Name Qualifier	X ID 1/1
		Qualifier indicating the source (regulatory) of the proper shipping name	
		D Domestic (United States) Shipping Name	
Not Used	LH303	985 N.O.S. Indicator Code	O ID 3/3
		Code indicating the type of regulatory requirements that apply to a description; N.O.S. stands for Not Otherwise Specified	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	LH304	1073 Yes/No Condition or Response Code	O ID 1/1
		Code indicating a Yes or No condition or response	
		Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment: **LHR** Hazardous Material Identifying Reference Numbers
Position: 210
Loop: LH1 Optional
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To transmit specific hazardous material reference numbers
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	LHR01	128	Reference Identification Qualifier Code qualifying the Reference Identification 6P Group Number	M ID 2/3
M	LHR02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/30
Not Used	LHR03	373	Date Date expressed as CCYYMMDD	O DT 8/8

Segment: **NM1 Individual or Organizational Name**
Position: 260
Loop: NM1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To supply the full name of an individual or organizational entity
Syntax Notes: 1 If either NM108 or NM109 is present, then the other is required.
2 If NM111 is present, then NM110 is required.
Semantic Notes: 1 NM102 qualifies NM103.
Comments: 1 NM110 and NM111 further define the type of entity in NM101.

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	NM101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual OW Owner of Property or Unit	M ID 2/3
M	NM102	1065	Entity Type Qualifier Code qualifying the type of entity 1 Person	M ID 1/1
Must Use	NM103	1035	Name Last or Organization Name Individual last name or organizational name	O AN 1/35
Must Use	NM104	1036	Name First Individual first name	O AN 1/25
Not Used	NM105	1037	Name Middle Individual middle name or initial	O AN 1/25
Not Used	NM106	1038	Name Prefix Prefix to individual name	O AN 1/10
Not Used	NM107	1039	Name Suffix Suffix to individual name	O AN 1/10
Not Used	NM108	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 1/2
Not Used	NM109	67	Identification Code Code identifying a party or other code	X AN 2/80
Not Used	NM110	706	Entity Relationship Code Code describing entity relationship Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2

Not Used	NM111	98	Entity Identifier Code	O ID 2/3
Code identifying an organizational entity, a physical location, property or an individual				
Refer to 004010 Data Element Dictionary for acceptable code values.				

Segment: **N1** Name
Position: 290
Loop: N1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes:

- 1 At least one of N102 or N103 is required.
- 2 If either N103 or N104 is present, then the other is required.

Semantic Notes:
Comments:

- 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
- 2 N105 and N106 further define the type of entity in N101.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	N101	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			CI Consignor	
			CN Consignee	
			UP Unloading Party	
Not Used	N102	93	Name	X AN 1/60
			Free-form name	
Must Use	N103	66	Identification Code Qualifier	X ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)	
			10 Department of Defense Activity Address Code (DODAAC)	
Must Use	N104	67	Identification Code	X AN 2/80
			Code identifying a party or other code	
Not Used	N105	706	Entity Relationship Code	O ID 2/2
			Code describing entity relationship	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	N106	98	Entity Identifier Code	O ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment: **SE** Transaction Set Trailer
Position: 020
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes:**Semantic Notes:**

Comments: 1 SE is the last segment of each transaction set.

Data Element Summary

	Ref.	Data		
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	SE01	96	Number of Included Segments	M N0 1/10
			Total number of segments included in a transaction set including ST and SE segments	
M	SE02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	